



The Daedalean

Semper Discens

*Monthly Aerospace Education Newsletter of the Connecticut
Wing of the Civil Air Patrol*

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CTWG*

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ATTENTION AEOS ANNUAL REPORTS DUE

The annual Squadron reports are due by 15 January, 2011. An email version of this report has been sent with this newsletter. For your convenience, this form may be filled out directly and emailed back to the DAE, srocketto@aquilaasys.com. All an AEO needs to do is look up some facts, enter them on the form, and hit "reply."

GRANT APPLICATION REQUEST

The Wing is submitting a grant request for some major funding, some of which will be passed on to the Squadrons. The Director of Aerospace Education requests that all AEOs submit a list of possible.

In order to participate, your squadron must submit a proposal for funding to me by 16 January, 2011. In addition, your squadron annual Aerospace Education Reports must be submitted on time.

Here are some guidelines:

1. The proposal cannot be for funding for:

- A. In-Kind Donations
- B. Capital Campaigns (new construction, major renovations, normal budgetary items)
- C. Capital Improvements (enhancement of property value)
- D. Scholastic scholarships for post-secondary institutions
- E. Program advertising, film, or video projects
- F. General operating expenses
- G. Multi-year commitments

5. Money used for cadet programs, aerospace education, and mission enhancement will be looked upon favorably. Try to submit a \$2,000 proposal.

6. The following are some suggested categories which should be used when submitting your application to me. However, they are not the only ones. If unsure, submit the idea with some sort of justification and I will get back to you for further information.

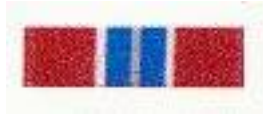
- A. Cadet encampment fees
- B. Squadron field trip fees
- C. transportation costs
- D. billeting costs
- E. ES equipment-first aid kits, compasses, tentage, radios, safety vests, *etc.*
- F. Teaching materials for aerospace

7. If your squadron does not submit a request to me, and on time, you may not receive funding if the grant is successful

8. Submit your proposed budget to the DAE at srocketto@aquilasys.com. Put squadron name and words "grant proposal" on the reference line. Example: Thames River Composite Squadron Grant Proposal submission.

9. Time is of the essence. Get your email in as soon as possible and no later than 16 January.

2010 CTWG YEAGER AWARDEES



Aerospace Education is proud to announce that the following officers have met the standards of the Aerospace Education Program for Senior members and qualified for the Yeager Award.

CT-004 2nd Lt Stephen P. Nolan

CT-014 Capt Jennifer Bachand, 1st Lts Phillip Breault and Jonathan A. Luysterborghs, 2nd Lt Constance J Castillo

CT-022 Capt Ian M. Schermann

CT-042 Capt Ralph C. Langham, 2nd Lts Joseph E. Bisnov and Adam H. Williams

CT-071 Maj Jeffrey S. Travers, Capt Stephen M. Petty, 1st Lt Barbara Z. Kelleher, SM Megan K. Ahern

CT 073 Maj Jan D. Dunn, 1st Lt Mark J. Lutian, 2nd Lt John A. Franco, SM Chester J. Galemba, Jr, and Akihiro Hashimoto

CT 074 1st Lt Richard B. Russell III

CT-075 2nd Lt Robert T. Looney

CT-801 2nd Lt Christopher E. Keenan, Sr

CURRENT EVENTS

Update on Delayed Discovery Mission

Shuttle program managers have decided to strengthen dozens of support stringers on the shuttle's external tank in an effort to prevent cracks. The long delayed mission is now scheduled for a February launch window.

Navy's New Electromagnetic Catapult Tested

As naval aircraft grow heavier, the half century old steam catapult system used on aircraft carriers is reaching the end of its useful life.

Naval Air Systems Command, Lakehurst, New Jersey, is ground testing an new electromagnetic system which provides far more control over delivered energy, smoother acceleration, lower maintenance costs, and more variability in speed,

The new system is scheduled for installation on the USS Gerald R. Ford (CVN 78) this year.

National Aviation Hall of Fame Announces New Enshrinees

The National Aviation Hall of Fame in Dayton will enshrine four new members in ceremonies on July 16th, 2011. Capt Iven carl Kincheloe, Jr, USAF, a Korean War double ace and test pilot, Col Charles Edward McGee, Tuskegee Airman and fighter pilot with 409 missions in three wars, S. Harry Robertson, father of the crashworthy fuel system, and General Thomas D. White, a former Chief of Staff are the selectees.

The Blue Angels will receive the 2011 Milton Caniff "Spirit of Flight" Award for a 65 year history of "serving as positive role models and goodwill ambassadors for the US Navy and the US Marine Corps.

The "Blues" are the oldest US military aerobatic team. They have flown the Grumman F6F Hellcat, F8F Bearcat, F9F Panther, F9F-8 Cougar, F11F-1 Tiger and the Douglas A-4F Skyhawk, McDonnell F4J Phantom II, and the McDonnell-Douglas FA-16. Their support aircraft were a Douglas R4D Skytrain, Curtiss R5C Commando, Douglas R5D Skymaster, Lockheed C-121 Super Constellation and the current Lockheed USMC C-130 Hercules.



*Grumman
F11F-1 Tiger
late '50s-1960s*

*McDonnell
F-4J 1970
era*



*Douglas A-4F
Skyhawk mid 70s-mid
80s*



Present McDonnell-Douglas F/A 16s



"Fat Albert" support aircraft

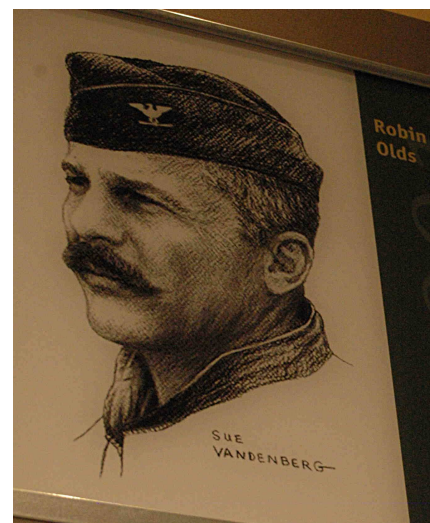
AEROSPACE HISTORY MEMORIES OF JANUARY'S PAST

January 1, 1969-The 71st Special Operations Squadron of the Air Force Reserve flew the first AC-119 Shadow gunship combat mission in Vietnam.



AC-119J at Air Commando Museum

02 JAN, 1967-In Operation BOLO, F-4 Phantom pilots of the 8th Tactical Fighter Wing shot down seven MiG-21s over the Red River Valley, North Vietnam. Col. Robin Olds, 8th Tactical Fighter Wing commander, shot down a MiG-21 to become the only USAF ace with aerial victories in both World War II and Vietnam.



03 JAN, 1981-Pan American World Airways retires its last Boeing 707.



Jet Clipper Morning Star

04 JAN, 1989-Two Libyan MiG-23s are shot down by USN F-14s over the Gulf of Sidra.

05 JAN, 1943-Maj. Gen. Carl A. Spaatz is appointed Commander in Chief of Allied Air Forces in North Africa.



06 JAN, 1925-The German air carriers, *Junkers* and *AeroLloyd* amalgamate to form *Deutsche Lufthansa*.

07 JAN, Major Carl Spaatz and his crew land their Fokker C-2 trimotor in Los Angeles after using aerial refueling to set a new endurance record of almost 151 hours.

08 JAN, 1944 Test pilot Milo Burcham flew the Lockheed XP-80 Lulu Belle for the first time at Muroc Dry Lake, California. The P-80 became the first U.S. fighter to exceed 500 miles per hour in level flight.



Lulu Belle now rests at the National Air and Space Museum, The Mall, District of Columbia.

09 JAN, 1943-First Flight of the Lockheed C-69 Constellation piloted by Eddie Allen and Milo Burcham, Burbank, California.



A Model L-049 Connie in TWA livery, retired at Pima

10 JAN, 1961-First Flight of the Bell 206A JetRanger.



JetRanger at WST

11 JAN, 1945-Capt. William A. Shomo sets AAF record of seven enemy air victories in a single

engagement.

12 JAN, 1866-The Aeronautical Society of Great Britain founded, forerunner of the Royal Aeronautical Society.

13 JAN, 1908-Henri Farman sets an absolute speed record of 32.74 mph flying a Voisin-Farman biplane.

14 JAN, 1953-Lt Joseph M. McConnell, Jr., flying an F-86 Sabre Jet records his first aerial victory, shooting down a North Korean MiG-15. McConnell, a WW II B-24 navigator, went on to become the leading USAF ace of the Korean War with a total of 16 aerial victories.

15 JAN, 1991-The first hot air balloon to cross the Pacific launches from Japan to land, eventually, in Canada. The crew of Per Lindstrand and Richard Branson average about 140 mph and fly as fast as 245 mph in the westerly jet stream.

16 JAN, 1975-Start of record setting week By setting eight time-to-climb records in the specially prepared F-15 Eagle known as "Streak Eagle.", Maj. Roger J. Smith, Maj. David W. Peterson, and Maj. Willard R. MacFarlane earned the Mackay Trophy.



Specially stripped F-15, Streak Eagle, on display at the Museum of the USAF.

January 17, 1956-The Defense Department revealed the existence of SAGE (semi-automatic ground environment)—an automated, electronic air-defense system. Its radar transmitted data rapidly via telephone lines to direction/combat centers, where large computers processed the information for interception aircraft.



IM-99 Bomarc, a product of Boeing and Michigan Aerospace Research Center. The only SAM ever fielded by the USAF and designed as one of the interceptors controlled by SAGE.

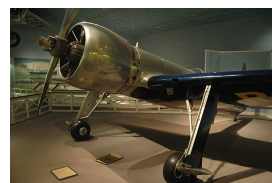
January 18, 1957-Commanded by Maj. Gen. Archie J. Old, Jr., USAF, three B-52 Stratofortresses completed the first around-the-world nonstop flight by jet aircraft. The bombers covered the 24,325-mile distance in 45 hours and 19 minutes, flying at an average speed of 534 miles per hour.



B-52B, the type used in Operation Power Flite

19 JAN, 1910-At Los Angeles, Lt Paul Beck, flying a Farman biplane drops sandbags in the first U.S. Army experiment in aerial bombardm20

JAN, 1937-Howard Hughes, in his H-1 racer, sets a new transcontinental speed record of 332 mph.



The Hughes Racer at NASM on the Mall

21 JAN, 1951 January 21: Lt. Col. William E. Bertram became the first USAF pilot to shoot down a MiG-15 while flying an F-84 Thunderjet.



Republic F-84E

22 JAN, 1952-At Wallops Island, Virginia, NACA engineers run the first test on a rocket propelled vehicle incorporating the Whitcomb Area Rule.

23 JAN, 1970-NASA launches the first Improved TIROS Operational Satellite (ITOS), the forerunner of the the National Oceanographic and Atmospheric Administration's polar orbiting meteorology satellites.

24 JAN, 1972-Singapore Airlines is formed.

25 JAN, 1983-First Flight of the Saab-Fairchild 340.



Swedish Designed Regional Airliner, Saab 340

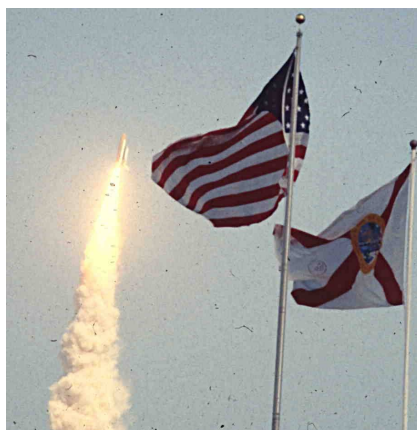
26 JAN, 1953-Chance-Vought produces the last F4U Corsair after a 13 year production run.



Fleet Air Arm Corsair at Duxford

27 JAN, 1967-Gus Grissom, Edward White, and Roger Chaffee, the crew of "Apollo One" lost when a fire breaks out inside their capsule during a training exercise.

28 Jan., 1986-The crew of Challenger, Space Shuttle Mission 51-L lost when, just after launch, exhaust leaking from a faulty joint in a solid rocket booster ignites the fuel in the external fuel tank.



Challenger on its penultimate launch

29 JAN, 1953-First Flight of the Morane-Sulnier M.S. 755, prototype of the M.S. 760 Paris.

30 JAN, 1948-Orville Wright goes West.



31 JAN, 1958-The Army launches the first successful U.S. satellite, Explorer I, aboard a Jupiter-C vehicle.

2011 Commander's Cup Rocketry Contest Connecticut Wing

The CTWG will once again sponsor the Commander's Cup Rocket Contest. This year, the rules of engagement have been aligned with the requirements of the Rocketry Badge Program. The construction of the rockets is an ideal winter activity program. The rules follow:

TENTATIVE RULES OF ENGAGEMENT

Every participating squadron will supply one judge.

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Flight 1: Tyro Cadets will build an Estes Alpha or Quest Astra 1 decorated in a Civil Air Patrol Theme. The entry will be judged on construction, finish, and flight. Each first year Cadet in a Squadron may enter one rocket. A Tyro Cadet is a Cadet who has never participated in the Wing contest. (CAVEAT-The Alpha is the model with balsa fins. Do not order the Alpha III with plastic fins for this contest.)

Flight 2: Load Bearing or Multistage Rocket

Flight 3: Historic Air Vehicle

Judging will be based on construction and finish,.

Construction points will be based on sanding, contouring of fins, joins of fins to fuselage, and alignment of fins. Finish will be based upon quality of paint application, neatness of decal or marking application, and appropriate markings and colors.

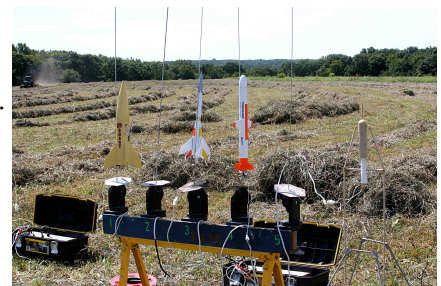
A scoring rubric will be developed and sent out for comments.

Squadrons are responsible for purchasing rockets, engines, igniters, and wadding.

Scenes from the 2010 Competition



Stratford Eagles Check in With Safety Officer



*Launch Rack Set.
Note Prize
Winning
Tomahawk and
Goddard Design*